

PROJECT DESCRIPTION

I. General

This portion of the project involves the reconstruction of the existing traffic control signal at the intersection of MD 150 (Eastern Ave) and Ashby Ave / Southern Ave in Baltimore County. MD 150 is assumed to run in a east - west direction.

II. Intersection Operation

This intersection shall operate in a NEMA four (4) phase fully actuated mode with eastbound and westbound MD 150 operating concurrently. Northbound Southern Ave and southbound Ashby Ave shall operate in an exclusive phase.

An eight phase fully actuated controller with two (2) four channel rack mounted loop detector amplifiers housed in a pole mounted cabinet shall be installed at the intersection.

III. Special Notes

1.) Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 104.00 - 104.00-30, 104.38-02, 104.39-02, 104.40-02, 104.41-02.

2.) The following are SHA District Contact persons:

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations
Division (410) 787-7630

Mr. Dave Malkowski
District Engineer
(410) 321-3461

Mr. Randal Scott
Asst. District Engineer -
Traffic
(410) 321-3514

Mr. Russell Yurek
Asst. District Engineer -
Maintenance
(410) 321-3468

Mr. Joseph McMahon
District Engineer- Utility
(410) 321-3456

EQUIPMENT LIST

A. Equipment to be supplied by the Administration

			Specification	
Item No.	Quantity	Units	Section	Description
10		EA	814	12 in. 1 way 3 section (R,Y,G) signal head - mast arm mount.
2		EA	814	12 in. 1 way 5 section (R,Y,G,YA,GA) signal head - mast arm mount.
1		EA	814	Install 12 in. one-way 2 section pedestrian signal head pole mount
3		EA	814	Install 12 in. one-way 2 section pedestrian signal head - pedestal mount
1		EA	816	Eight-phase (fully actuated controller and cabinet) - pole mount
2		EA	xxx	Two channel loop detector amplifier(delayed output)
84		SF	813	Sheet aluminum signs consisting of:
			2 EA	R10-12, (36 in. x 42 in.) "Left Turn Yield on Green", -mast arm mount.
			2 EA	D3-2 (var x 16 in.) sign mast arm mount
			2 EA	D3-2 (var x 32 in.) sign mast arm mount

EQUIPMENT LIST

B. Equipment to be furnished and/or installed by the Contractor.

Item No.	Quantity	Units	Specification Section	Description
6	CY	205		Test pit excavation
310	LF	555		Furnish and install 12 in. white thermoplastic pavement marking tape
170	LF	555		Furnish and install 24 in. white thermoplastic pavement marking tape
16	CY	801		Furnish and install concrete for signal foundation.
6	EA	804		Furnish and install ground rod - 3/4 in. diameter x 10 ft.

EQUIPMENT LIST (cont'.)

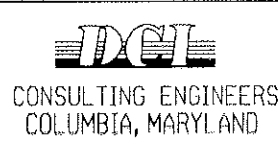
B. Equipment to be furnished and/or installed by the Contractor.

Item No.	Quantity	Units	Specification Section	Description
250	LF	805		Furnish and install 3 in. schedule 80 rigid PVC conduit - slotted.
100	LF	805		Furnish and install 3 in. schedule 80 rigid PVC conduit - trenched.
60	LF	805		Furnish and install 2 in. schedule 80 rigid PVC conduit - bored.
540	LF	805		Furnish and install 2 in. schedule 80 rigid PVC conduit - Trenched.
170	LF	805		Furnish and install 2 in. schedule 80 rigid PVC conduit - slotted.
35	LF	805		Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector wire sleeve.
20	LF	805		Furnish and install 1 in. electrical conduit - galvanized sleeve
2	EA	806		Furnish and install 250 Watt high pressure sodium lamp and luminaire with photo cell
1	EA	807		Furnish and install control and distribution equipment.
350	LF	810		Furnish and install No. 6 AWG standard bare copper ground wire.
110	LF	810		Furnish and install electrical cable 1- conductor No. 4 AWG - THHN/THWN
690	LF	810		Furnish and install electrical cable - 2 conductor (Aluminum shielded).
160	LF	810		Furnish and install electrical cable - 5 conductor (No. 14 AWG).
1480	LF	810		Furnish and install electrical cable - 7 conductor (No. 14 AWG).
2080	LF	810		Furnish and install loop wire encased in flexible tubing (No. 14 AWG).
480	LF	810		Furnish and install 2 - conductor - Tray cable (No. 12 AWG).
14	EA	811		Furnish and install electrical handhole.
84	SF	813		Install overhead sign - for signals.
84	EA	814		Install signal head - span wire mount.
16	EA	814		Install signal head - any type
490	LF	815		Furnish and install saw out for signal.

EQUIPMENT LIST (cont'.)

B. Equipment to be furnished and/or installed by the Contractor.

Item No.	Quantity	Units	Specification Section	Description
1	EA	816		Install eight phase (fully actuated) controller and cabinet - pole mount.
1	EA	829		Furnish and install a 27 ft. steel pole with twin 60 ft. / 50 ft mast arm (Note: Four - 2 in. x 90 in. anchor bolts).
1	EA	829		Furnish and install 27 ft. steel pole with twin 70 ft. / 50 ft. mast arms (Note: Four - 2 in. x 90 in. anchor bolts.
2	EA	829		Furnish and install 27 ft. steel pole with a single 38 ft. mast arms (Note: Four - 1 3/4 in. x 60 in. anchor bolts.
2	EA	818		Furnish and install 20 ft lighting arm on signal structure
LS	LS	xxx		Removal and disposal of existing materials.
LS	LS	xxx		Removal and salvage of existing traffic signal controller
LS	LS	xxx		Delivery of salvaged traffic signal controller
6	EA	xxx		Cut, clean, galvanize, and cap mast arm.
2	EA	818		Furnish and install 10 ft. breakaway pedestal pole
2	EA	xxx		Furnish and install breakaway based support system.
2	EA	xxx		Furnish and install push-button and R10-3c sign.
2	EA	815		Furnish and install microloop probe with a 500 ft. Lead in cable
2	EA	815		Furnish and install microloop probe with a 1000 ft. Lead in cable



REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 150 (EASTERN AVE) @ ASHBY AVE / SOUTHERN AVE
GENERAL INFORMATION SHEET 2 OF 2

DRAWN BY: J. ALLEN JR.
CHECK BY: [Signature]
SCALE: NTS

F.A.P. NO.
S.H.A. NO.
COUNTY: BALTIMORE

DATE: / /
PLAN SHEET NO.: 3765
SHEET NO. OF